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(FILE 'HOME' ENTERED AT 08:01:47 ON 30 DEC 2003)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DISSABS, DDFB, DDFU, DGENE, DRUGB, DRUGMONOG2, ...' ENTERED AT 08:01:59 ON 30 DEC 2003

SEA GLUCOAMYLASE

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1 FILE ADISCTI  
2 FILE ADISINSIGHT  
696 FILE AGRICOLA  
41 FILE ANABSTR  
10 FILE AQUASCI  
526 FILE BIOBUSINESS  
48 FILE BIOCOMMERCE  
2267 FILE BIOSIS  
2061 FILE BIOTECHABS  
2061 FILE BIOTECHDS  
708 FILE BIOTECHNO  
602 FILE CABA  
29 FILE CANCERLIT  
5287 FILE CAPLUS  
623 FILE CEABA-VTB  
3 FILE CEN  
29 FILE CIN  
62 FILE CONFSCI  
1 FILE CROPB  
91 FILE DISSABS  
22 FILE DDFB  
23 FILE DDFU  
1227 FILE DGENE  
22 FILE DRUGB  
39 FILE DRUGU  
7 FILE EMBAL  
1013 FILE EMBASE  
533 FILE ESBIODBASE  
14 FILE FEDRIP  
2 FILE FOMAD  
31 FILE FOREGE  
448 FILE FROSTI  
1370 FILE FSTA  
537 FILE GENBANK  
2 FILE HEALSAFE  
507 FILE IFIPAT  
792 FILE JICST-EPLUS  
918 FILE LIFESCI  
987 FILE MEDLINE  
2 FILE NIOSHTIC  
29 FILE NTIS  
3 FILE OCEAN  
1321 FILE PASCAL  
2 FILE PHAR  
2 FILE PHIN  
67 FILE PROMT  
1 FILE RDISCLOSURE  
2064 FILE SCISEARCH  
457 FILE TOXCENTER  
4936 FILE USPATFULL  
98 FILE USPAT2  
1 FILE VETU

886 FILE WPIDS  
886 FILE WPINDEX  
L1 QUE GLUCOAMYLASE  
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FILE 'CAPLUS, USPATFULL, BIOSIS, SCISEARCH, BIOTECHDS, FSTA, PASCAL,  
EMBASE, MEDLINE, LIFESCI, WPIDS, JICST-EPLUS, BIOTECHNO, AGRICOLA'  
ENTERED AT 08:03:36 ON 30 DEC 2003

L2 5624 S L1 AND (VARIANT OR MUTANT)  
L3 2249 S L2 AND (POSITION 402 OR AMINO ACID 402 OR 402)  
L4 2248 DUP REM L3 (1 DUPLICATE REMOVED)  
L5 2248 S L4 AND 402

FILE 'CAPLUS, USPATFULL, BIOSIS, SCISEARCH, BIOTECHDS' ENTERED AT  
08:09:44 ON 30 DEC 2003

L6 2284 S L1 AND 402  
L7 2247 S L2 AND 402  
L8 2237 S L7 AND POSITION  
L9 136 S L8 AND (POSITION 402)  
L10 136 DUP REM L9 (0 DUPLICATES REMOVED)

=> log Y

L10 ANSWER 130 OF 136 USPATFULL on STN  
 ACCESSION NUMBER: 2002:141510 USPATFULL  
 TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same  
 INVENTOR(S): Ashkenazi, Avi J., San Mateo, CA, UNITED STATES  
 Baker, Kevin P., Darnestown, MD, UNITED STATES  
 Botstein, David, Belmont, CA, UNITED STATES  
 Desnoyers, Luc, San Francisco, CA, UNITED STATES  
 Eaton, Dan L., San Rafael, CA, UNITED STATES  
 Ferrara, Napoleone, San Francisco, CA, UNITED STATES  
 Fong, Sherman, Alameda, CA, UNITED STATES  
 Gerber, Hanspeter, San Francisco, CA, UNITED STATES  
 Gerritsen, Mary E., San Mateo, CA, UNITED STATES  
 Goddard, Audrey, San Francisco, CA, UNITED STATES  
 Godowski, Paul J., Hillsborough, CA, UNITED STATES  
 Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES  
 Gurney, Austin L., Belmont, CA, UNITED STATES  
 Kljavin, Ivar J., Lafayette, CA, UNITED STATES  
 Napier, Mary A., Hillsborough, CA, UNITED STATES  
 Pan, James, Belmont, CA, UNITED STATES  
 Paoni, Nicholas F., Belmont, CA, UNITED STATES  
 Roy, Margaret Ann, San Francisco, CA, UNITED STATES  
 Stewart, Timothy A., San Francisco, CA, UNITED STATES  
 Tumas, Daniel, Orinda, CA, UNITED STATES  
 Watanabe, Colin K., Moraga, CA, UNITED STATES  
 Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES  
 Wood, William I., Hillsborough, CA, UNITED STATES  
 Zhang, Zemin, Foster City, CA, UNITED STATES  
 PATENT ASSIGNEE(S): Genentech, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002072496	A1	20020613
APPLICATION INFO.:	US 2001-989279	A1	20011119 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	WO 1997-US20069	19971105
	WO 1998-US19330	19980916
	WO 1998-US19437	19980917
	WO 1998-US21141	19981007
	WO 1998-US25108	19981201
	WO 1999-US106	19990105
	WO 1999-US5028	19990308
	WO 1999-US12252	19990602
	WO 1999-US21090	19990915
	WO 1999-US21547	19990915
	WO 1999-US28313	19991130
	WO 1999-US28301	19991201
	WO 1999-US28634	19991201
	WO 1999-US30095	19991216
	WO 1999-US30911	19990220
	WO 2000-US219	20000105
	WO 2000-US376	20000106
	WO 2000-US3565	20000211
	WO 2000-US4341	20000218
	WO 2000-US4414	20000222
	WO 2000-US4914	20000224
	WO 2000-US5004	20000224
	WO 2000-US5841	20000302

WO 2000-US6319	20000310
WO 2000-US6884	20000315
WO 2000-US7377	20000320
WO 2000-US8439	20000330
WO 2000-US13358	20000515
WO 2000-US14042	20000522
WO 2000-US15264	20000602
WO 2000-US13705	20000517
WO 2000-US14941	20000530
WO 2000-US20710	20000728
WO 2000-US22031	20000811
WO 2000-US23522	20000823
WO 2000-US23328	20000824
WO 2000-US30952	20001108
WO 2000-US32678	20001201
WO 2001-US6520	20010228
WO 2001-US17800	20010601
WO 2001-US19692	20010620
WO 2001-US21066	20010629
WO 2001-US21735	20010709
US 1997-49787P	19970616 (60)
US 1997-62250P	19971017 (60)
US 1997-65186P	19971112 (60)
US 1997-65311P	19971113 (60)
US 1997-66770P	19971124 (60)
US 1998-75945P	19980225 (60)
US 1998-78910P	19980320 (60)
US 1998-83322P	19980428 (60)
US 1998-84600P	19980507 (60)
US 1998-87106P	19980528 (60)
US 1998-87607P	19980602 (60)
US 1998-87609P	19980602 (60)
US 1998-87759P	19980602 (60)
US 1998-87827P	19980603 (60)
US 1998-88021P	19980604 (60)
US 1998-88025P	19980604 (60)
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US 1998-88734P	19980610 (60)
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US 1998-89512P	19980616 (60)
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US 1998-89538P	19980617 (60)
US 1998-89598P	19980617 (60)
US 1998-89599P	19980617 (60)

US 1998-89600P 19980617 (60)  
US 1998-89653P 19980617 (60)  
US 1998-89801P 19980618 (60)  
US 1998-89907P 19980618 (60)  
US 1998-89908P 19980618 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: Paul E. Rauch, Ph.D., Brinks, Hofer, Gilson & Lione,  
NBC Tower - Suite 3600, 455 N. Cityfront Plaza Drive,  
Chicago, IL, 60611-5599

NUMBER OF CLAIMS: 118  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 330 Drawing Page(s)  
LINE COUNT: 32245  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L10 ANSWER 131 OF 136 USPATFULL on STN  
ACCESSION NUMBER: 2002:141110 USPATFULL  
TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same  
INVENTOR(S): Ashkenazi, Avi J., San Mateo, CA, UNITED STATES  
Baker, Kevin P., Darnestown, MD, UNITED STATES  
Botstein, David, Belmont, CA, UNITED STATES  
Desnoyers, Luc, San Francisco, CA, UNITED STATES  
Eaton, Dan L., San Rafael, CA, UNITED STATES  
Ferrara, Napoleone, San Francisco, CA, UNITED STATES  
Fong, Sherman, Alameda, CA, UNITED STATES  
Gerber, Hanspeter, San Francisco, CA, UNITED STATES  
Gerritsen, Mary E., San Mateo, CA, UNITED STATES  
Goddard, Audrey, San Francisco, CA, UNITED STATES  
Godowski, Paul J., Hillsborough, CA, UNITED STATES  
Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES  
Gurney, Austin L., Belmont, CA, UNITED STATES  
Kljavin, Ivar J., Lafayette, CA, UNITED STATES  
Napier, Mary A., Hillsborough, CA, UNITED STATES  
Pan, James, Belmont, CA, UNITED STATES  
Paoni, Nicholas F., Belmont, CA, UNITED STATES  
Roy, Margaret Ann, San Francisco, CA, UNITED STATES  
Stewart, Timothy A., San Francisco, CA, UNITED STATES  
Tumas, Daniel, Orinda, CA, UNITED STATES  
Watanabe, Colin K., Moraga, CA, UNITED STATES  
Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES  
Wood, William I., Hillsborough, CA, UNITED STATES  
Zhang, Zemin, Foster City, CA, UNITED STATES  
PATENT ASSIGNEE(S): Genentech, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002072092	A1	20020613
APPLICATION INFO.:	US 2001-989723	A1	20011119 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	WO 1997-US20069	19971105

WO 1998-US19330	19980916
WO 1998-US19437	19980917
WO 1998-US21141	19981007
WO 1998-US25108	19981201
WO 1999-US106	19990105
WO 1999-US5028	19990308
WO 1999-US12252	19990602
WO 1999-US21090	19990915
WO 1999-US21547	19990915
WO 1999-US28313	19991130
WO 1999-US28301	19991201
WO 1999-US28634	19991201
WO 1999-US30095	19991216
WO 1999-US30911	19990220
WO 2000-US219	20000105
WO 2000-US376	20000106
WO 2000-US3565	20000211
WO 2000-US4341	20000218
WO 2000-US4414	20000222
WO 2000-US4914	20000224
WO 2000-US5004	20000224
WO 2000-US5841	20000302
WO 2000-US6319	20000310
WO 2000-US6884	20000315
WO 2000-US7377	20000320
WO 2000-US8439	20000330
WO 2000-US13358	20000515
WO 2000-US14042	20000522
WO 2000-US15264	20000602
WO 2000-US13705	20000517
WO 2000-US14941	20000530
WO 2000-US20710	20000728
WO 2000-US22031	20000811
WO 2000-US23522	20000823
WO 2000-US23328	20000824
WO 2000-US30952	20001108
WO 2000-US32678	20001201
WO 2001-US6520	20010228
WO 2001-US17800	20010601
WO 2001-US19692	20010620
WO 2001-US21066	20010629
WO 2001-US21735	20010709
US 1997-49787P	19970616 (60)
US 1997-62250P	19971017 (60)
US 1997-65186P	19971112 (60)
US 1997-65311P	19971113 (60)
US 1997-66770P	19971124 (60)
US 1998-75945P	19980225 (60)
US 1998-78910P	19980320 (60)
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US 1998-87609P	19980602 (60)
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US 1998-88025P	19980604 (60)
US 1998-88026P	19980604 (60)
US 1998-88028P	19980604 (60)
US 1998-88029P	19980604 (60)
US 1998-88030P	19980604 (60)
US 1998-88033P	19980604 (60)
US 1998-88326P	19980604 (60)

US 1998-88167P	19980605 (60)
US 1998-88202P	19980605 (60)
US 1998-88212P	19980605 (60)
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US 1998-88826P	19980610 (60)
US 1998-88858P	19980611 (60)
US 1998-88861P	19980611 (60)
US 1998-88876P	19980611 (60)
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US 1998-89532P	19980617 (60)
US 1998-89538P	19980617 (60)
US 1998-89598P	19980617 (60)
US 1998-89599P	19980617 (60)
US 1998-89600P	19980617 (60)
US 1998-89653P	19980617 (60)
US 1998-89801P	19980618 (60)
US 1998-89907P	19980618 (60)
US 1998-89908P	19980618 (60)

DOCUMENT TYPE: Utility  
 FILE SEGMENT: APPLICATION  
 LEGAL REPRESENTATIVE: BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610  
 NUMBER OF CLAIMS: 118  
 EXEMPLARY CLAIM: 1  
 NUMBER OF DRAWINGS: 330 Drawing Page(s)  
 LINE COUNT: 32634

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L10 ANSWER 132 OF 136 USPATFULL on STN  
 ACCESSION NUMBER: 2002:141085 USPATFULL  
 TITLE: Secreted and transmembrane polypeptides and nucleic acids encoding the same  
 INVENTOR(S): Ashkenazi, Avi J., San Mateo, CA, UNITED STATES  
 Baker, Kevin P., Darnestown, MD, UNITED STATES  
 Botstein, David, Belmont, CA, UNITED STATES  
 Desnoyers, Luc, San Francisco, CA, UNITED STATES  
 Eaton, Dan L., San Rafael, CA, UNITED STATES  
 Ferrara, Napoleone, San Francisco, CA, UNITED STATES  
 Fong, Sherman, Alameda, CA, UNITED STATES  
 Gerber, Hanspeter, San Francisco, CA, UNITED STATES  
 Gerritsen, Mary E., San Mateo, CA, UNITED STATES  
 Goddard, Audrey, San Francisco, CA, UNITED STATES  
 Godowski, Paul J., Hillsborough, CA, UNITED STATES  
 Grimaldi, J. Christopher, San Francisco, CA, UNITED STATES  
 Gurney, Austin L., Belmont, CA, UNITED STATES  
 Kljavin, Ivar J., Lafayette, CA, UNITED STATES  
 Napier, Mary A., Hillsborough, CA, UNITED STATES

Pan, James, Belmont, CA, UNITED STATES  
 Paoni, Nicholas F., Belmont, CA, UNITED STATES  
 Roy, Margaret Ann, San Francisco, CA, UNITED STATES  
 Stewart, Timothy A., San Francisco, CA, UNITED STATES  
 Tumas, Daniel, Orinda, CA, UNITED STATES  
 Watanabe, Colin K., Moraga, CA, UNITED STATES  
 Williams, P. Mickey, Half Moon Bay, CA, UNITED STATES  
 Wood, William I., Hillsborough, CA, UNITED STATES  
 Zhang, Zemin, Foster City, CA, UNITED STATES  
 Genentech, Inc. (U.S. corporation)

PATENT ASSIGNEE(S):

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002072067	A1	20020613
APPLICATION INFO.:	US 2001-989722	A1	20011119 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-941992, filed on 28 Aug 2001, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	WO 1997-US20069	19971105
	WO 1998-US19330	19980916
	WO 1998-US19437	19980917
	WO 1998-US21141	19981007
	WO 1998-US25108	19981201
	WO 1999-US106	19990105
	WO 1999-US5028	19990308
	WO 1999-US12252	19990602
	WO 1999-US21090	19990915
	WO 1999-US21547	19990915
	WO 1999-US28313	19991130
	WO 1999-US28301	19991201
	WO 1999-US28634	19991201
	WO 1999-US30095	19991216
	WO 1999-US30911	19990220
	WO 2000-US219	20000105
	WO 2000-US376	20000106
	WO 2000-US3565	20000211
	WO 2000-US4341	20000218
	WO 2000-US4414	20000222
	WO 2000-US4914	20000224
	WO 2000-US5004	20000224
	WO 2000-US5841	20000302
	WO 2000-US6319	20000310
	WO 2000-US6884	20000315
	WO 2000-US7377	20000320
	WO 2000-US8439	20000330
	WO 2000-US13358	20000515
	WO 2000-US14042	20000522
	WO 2000-US15264	20000602
	WO 2000-US13705	20000517
	WO 2000-US14941	20000530
	WO 2000-US20710	20000728
	WO 2000-US22031	20000811
	WO 2000-US23522	20000823
	WO 2000-US23328	20000824
	WO 2000-US30952	20001108
	WO 2000-US32678	20001201
	WO 2001-US6520	20010228
	WO 2001-US17800	20010601
	WO 2001-US19692	20010620
	WO 2001-US21066	20010629
	WO 2001-US21735	20010709
	US 1997-49787P	19970616 (60)



US 1997-62250P	19971017 (60)
US 1997-65186P	19971112 (60)
US 1997-65311P	19971113 (60)
US 1997-66770P	19971124 (60)
US 1998-75945P	19980225 (60)
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US 1998-83322P	19980428 (60)
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US 1998-89599P	19980617 (60)
US 1998-89600P	19980617 (60)
US 1998-89653P	19980617 (60)
US 1998-89801P	19980618 (60)
US 1998-89907P	19980618 (60)
US 1998-89908P	19980618 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

BRINKS HOFER GILSON & LIONE, P.O. BOX 10395, CHICAGO, IL, 60610

NUMBER OF CLAIMS:

118

EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS:

330 Drawing Page(s)

LINE COUNT:

32345

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB

The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

L10 ANSWER 133 OF 136 USPATFULL on STN  
ACCESSION NUMBER: 2002:73347 USPATFULL  
TITLE: Synthases  
INVENTOR(S): Chappell, Joseph, Lexington, KY, UNITED STATES  
Manna, Kathleen R., Georgetown, IN, UNITED STATES  
Noel, Joseph P., San Diego, CA, UNITED STATES  
Starks, Courtney M., La Jolla, CA, UNITED STATES  
PATENT ASSIGNEE(S): The University of Kentucky Research Foundation,  
Kentucky corporation (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002040488	A1	20020404
	US 6559297	B2	20030506
APPLICATION INFO.:	US 2001-895752	A1	20010629 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-398395, filed on 17 Sep 1999, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-150262P	19990823 (60)
	US 1999-130628P	19990422 (60)
	US 1998-100993P	19980918 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Ronald C. Lundquist, Ph.D., Fish & Richardson P.C., P.A., Suite 3300, 60 South Sixth Street, Minneapolis, MN, 55402	
NUMBER OF CLAIMS:	162	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Page(s)	
LINE COUNT:	22399	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

AB Novel synthases and the corresponding nucleic acids encoding such synthases are disclosed herein. Such synthases possess an active site pocket that includes key amino acid residues that are modified to generate desired terpenoid reaction intermediates and products. Synthase modifications are designed based on, e.g., the three-dimensional coordinates of tobacco 5-epi-aristolochene synthase, with or without a substrate bound in the active site.

L10 ANSWER 134 OF 136 USPATEFULL on STN  
ACCESSION NUMBER: 2002:275922 USPATEFULL  
TITLE: Methods of making modified polypeptides  
INVENTOR(S): Chappell, Joseph, Lexington, KY, United States  
Manna, Kathleen R., Georgetown, IN, United States  
Noel, Joseph P., San Diego, CA, United States  
Starks, Courtney M., La Jolla, CA, United States  
PATENT ASSIGNEE(S): The Salk Institute for Biological Studies, San Diego,  
CA, United States (U.S. corporation)  
The University of Kentucky Research Foundation,  
Lexington, KY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6468772	B1	20021022
APPLICATION INFO.:	US 1999-398395		19990917 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-150262P	19990823 (60)
	US 1999-130628P	19990422 (60)
	US 1998-100993P	19980918 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: GRANTED  
PRIMARY EXAMINER: Zeman, Mary K.  
ASSISTANT EXAMINER: Clow, Lori A.  
LEGAL REPRESENTATIVE: Fish & Richardson P.C., P.A.  
NUMBER OF CLAIMS: 13  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 4 Drawing Page(s)  
LINE COUNT: 14803

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel polypeptides and the corresponding nucleic acids encoding such polypeptides are disclosed herein. The invention provides methods of making modified polypeptides by altering one or more amino acid residues involved in the active site of a preselected polypeptide.

L10 ANSWER 135 OF 136 USPATFULL on STN  
ACCESSION NUMBER: 2001:205873 USPATFULL  
TITLE: Haloperoxidases with altered pH profiles  
INVENTOR(S): Svendsen, Allan, Birkerod, Denmark  
Jorgensen, Louise, Horsholm, Denmark  
PATENT ASSIGNEE(S): Novozymes A/S, Bagsvaerd, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001041666	A1	20011115
	US 6372465	B2	20020416
APPLICATION INFO.:	US 2001-788871	A1	20010220 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-271778, filed on 18 Mar 1999, GRANTED, Pat. No. US 6221821		

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1998-374	19980318
	US 1998-79228P	19980324 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	NOVOZYMES NORTH AMERICA, INC., C/O NOVO NORDISK OF NORTH AMERICA, INC., 405 LEXINGTON AVENUE, SUITE 6400, NEW YORK, NY, 10174	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1088	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to **variants** of a parent vanadium-containing haloperoxidase, which **variant** has haloperoxidase activity and an altered pH optimum and comprises a mutation in a **position** corresponding to at least one of the following **positions**:

R490A, L, I, Q, M, E, D;

A399G;

F397N, Y, E, Q;

P395A, S;

R360A, L, I, Q, M, E, D;

K353Q, M;

S402A, T, V, S;

D292L;

A501S;

W350F,Y;

V495A,T,V,S;

K394 A,L,I,Q,M,E,D;

wherein the parent haloperoxidase has the amino acid sequence given in SEQ ID No. 1, or the parent haloperoxidase has an amino acid sequence which is at least 80% homologous to SEQ ID No. 1.

L10 ANSWER 136 OF 136 USPATFULL on STN  
ACCESSION NUMBER: 2001:59842 USPATFULL  
TITLE: Haloperoxidases with altered pH profiles  
INVENTOR(S): Svendsen, Allan, Birker.o slashed.d, Denmark  
J.o slashed.rgensen, Louise, H.o slashed.rsholm,  
Denmark  
PATENT ASSIGNEE(S): Novozymes A/S Patents, Bagsvaerd, Denmark (non-U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6221821	B1	20010424
APPLICATION INFO.:	US 1999-271778		19990318 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1998-374	19980318
	US 1998-79228P	19980324 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Saidha, Tekchand  
LEGAL REPRESENTATIVE: Lambiris, Esq., Elias J.  
NUMBER OF CLAIMS: 16  
EXEMPLARY CLAIM: 1  
LINE COUNT: 883

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Variants of a parent vanadium-containing haloperoxidase, which variant has haloperoxidase activity and an altered pH optimum and comprises a mutation in a position corresponding to at least one of the following positions: R490A, L, I, Q, M, E, D; A399G; F397N, Y, E, Q; P395A, S; R360A, L, I, Q, M, E, D; K353Q, M; S402A, T, V, S; D292L; A501S; W350F, Y; V495A, T, V, S; K394 A, L, I, Q, M, E, D; wherein the parent haloperoxidase has the amino acid sequence given in SEQ ID No. 1, or the parent haloperoxidase has an amino acid sequence which is at least 80% homologous to SEQ ID No. 1.

## Refine Search

### Search Results -

Terms	Documents
L1 same L4	0

Database:

US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

Search:

L6

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Tuesday, December 30, 2003 [Printable Copy](#) [Create Case](#)

**Set Name** **Query**  
side by side

**Hit Count** **Set Name**  
result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ

<u>L6</u>	L1 same l4	0	<u>L6</u>
<u>L5</u>	L1 and l4	13	<u>L5</u>
<u>L4</u>	(amino acid 402) or (position 402)	305	<u>L4</u>
<u>L3</u>	L2 same (position 402) or (amino acid 402)	45	<u>L3</u>
<u>L2</u>	L1 same (mutant or variant)	352	<u>L2</u>
<u>L1</u>	glucoamylase	6219	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

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[Generate OACS](#)

**Search Results - Record(s) 1 through 13 of 13 returned.**

☐ 1. Document ID: US 20030113764 A1

L5: Entry 1 of 13

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113764  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030113764 A1

TITLE: Compositions and methods for the treatment of tumors

PUBLICATION-DATE: June 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bodary, Sarah C.	San Bruno	CA	US	
Fisher, Karen L.	Millbrae	CA	US	

US-CL-CURRENT: 435/6; 424/146.1, 435/226, 435/320.1, 435/325, 435/69.1, 435/7.23,  
530/388.26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 2. Document ID: US 20030087406 A1

L5: Entry 2 of 13

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030087406  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030087406 A1

TITLE: Synthases

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chappell, Joseph	Lexington	KY	US	
Manna, Kathleen R.	Georgetown	IN	US	
Noel, Joseph P.	San Diego	CA	US	
Starks, Courtney M.	La Jolla	CA	US	

h e b b g e e e f e h h e f b e

US-CL-CURRENT: 435/183; 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 3. Document ID: US 20020094557 A1

L5: Entry 3 of 13

File: PGPB

Jul 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020094557

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020094557 A1

TITLE: Synthases

PUBLICATION-DATE: July 18, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chappell, Joseph	Lexington	KY	US	
Manna, Kathleen R.	Georgetown	IN	US	
Noel, Joseph P.	San Diego	CA	US	
Starks, Courtney M.	La Jolla	CA	US	

US-CL-CURRENT: 435/183; 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 4. Document ID: US 20020094556 A1

L5: Entry 4 of 13

File: PGPB

Jul 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020094556

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020094556 A1

TITLE: Synthases

PUBLICATION-DATE: July 18, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chappell, Joseph	Lexington	KY	US	
Manna, Kathleen R.	Georgetown	IN	US	
Noel, Joseph P.	San Diego	CA	US	
Starks, Courtney M.	La Jolla	CA	US	

US-CL-CURRENT: 435/183; 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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h e b b g e e f e h h e f b e

☐ 5. Document ID: US 20020040488 A1

L5: Entry 5 of 13

File: PGPB

Apr 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020040488  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020040488 A1

TITLE: Synthases

PUBLICATION-DATE: April 4, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chappell, Joseph	Lexington	KY	US	
Manna, Kathleen R.	Georgetown	IN	US	
Noel, Joseph P.	San Diego	CA	US	
Starks, Courtney M.	La Jolla	CA	US	

US-CL-CURRENT: 800/278; 435/183, 435/193

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 6. Document ID: US 20010041666 A1

L5: Entry 6 of 13

File: PGPB

Nov 15, 2001

PGPUB-DOCUMENT-NUMBER: 20010041666  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20010041666 A1

TITLE: Haloperoxidases with altered pH profiles

PUBLICATION-DATE: November 15, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Svendsen, Allan	Birkerod		DK	
Jorgensen, Louise	Horsholm		DK	

US-CL-CURRENT: 510/392; 435/202, 510/320, 510/530

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 7. Document ID: US 6645762 B2

L5: Entry 7 of 13

File: USPT

Nov 11, 2003

US-PAT-NO: 6645762  
DOCUMENT-IDENTIFIER: US 6645762 B2

h e b b g e e f e h h e f b e



TITLE: Synthases

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	References	Claims	KMOC	Draw De
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☐ 8. Document ID: US 6569656 B2

L5: Entry 8 of 13

File: USPT

May 27, 2003

US-PAT-NO: 6569656

DOCUMENT-IDENTIFIER: US 6569656 B2

TITLE: Synthases

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	References	Claims	KMOC	Draw De
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☐ 9. Document ID: US 6559297 B2

L5: Entry 9 of 13

File: USPT

May 6, 2003

US-PAT-NO: 6559297

DOCUMENT-IDENTIFIER: US 6559297 B2

TITLE: Synthases

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	References	Claims	KMOC	Draw De
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☐ 10. Document ID: US 6495354 B2

L5: Entry 10 of 13

File: USPT

Dec 17, 2002

US-PAT-NO: 6495354

DOCUMENT-IDENTIFIER: US 6495354 B2

TITLE: Synthases

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	References	Claims	KMOC	Draw De
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☐ 11. Document ID: US 6468772 B1

L5: Entry 11 of 13

File: USPT

Oct 22, 2002

US-PAT-NO: 6468772

DOCUMENT-IDENTIFIER: US 6468772 B1

TITLE: Methods of making modified polypeptides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	References	Claims	KMOC	Draw De
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h e b b g e e f e h h e f b e

☐ 12. Document ID: US 6372465 B1

L5: Entry 12 of 13

File: USPT

Apr 16, 2002

US-PAT-NO: 6372465

DOCUMENT-IDENTIFIER: US 6372465 B1

TITLE: Haloperoxidases with altered pH profiles

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw De
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☐ 13. Document ID: US 6221821 B1

L5: Entry 13 of 13

File: USPT

Apr 24, 2001

US-PAT-NO: 6221821

DOCUMENT-IDENTIFIER: US 6221821 B1

TITLE: Haloperoxidases with altered pH profiles

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw De
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L1 and L4	13

Display Format:  [Previous Page](#)[Next Page](#)[Go to Doc#](#)

## Refine Search

### Search Results -

Terms	Documents
L1 same L4	0

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
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 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L6

Refine Search

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### Search History

DATE: Tuesday, December 30, 2003 [Printable Copy](#) [Create Case](#)

**Set Name Query**  
 side by side

**Hit Count Set Name**  
 result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ

<u>L6</u>	L1 same l4	0	<u>L6</u>
<u>L5</u>	L1 and l4	13	<u>L5</u>
<u>L4</u>	(amino acid 402) or (position 402)	305	<u>L4</u>
<u>L3</u>	L2 same (position 402) or (amino acid 402)	45	<u>L3</u>
<u>L2</u>	L1 same (mutant or variant)	352	<u>L2</u>
<u>L1</u>	glucoamylase	6219	<u>L1</u>

END OF SEARCH HISTORY